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THE

PLOTTER

CLACKAMAS COUNTY AREA T/S
USERS GROUP
NEWS LETTER
****
VOLUME 7   **   NUMBER 7-8
******
JULY-AUGUST   1989

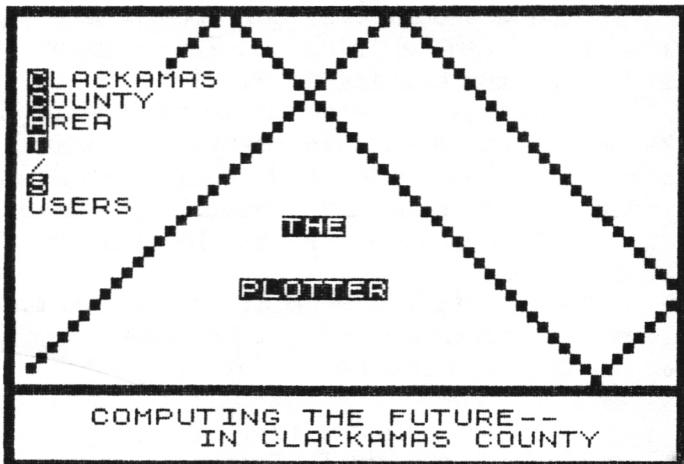*************************************

MEETING

The AUGUST meeting will be:

on: FRI., AUGUST 11, 1989

meeting room open at: 7:00 P.M.
in: COMMUNITY ROOM
    FAR WEST FEDERAL S & L
    OREGON CITY SHOPPING CENTER
****

WHAT YOU WILL FIND IN THIS ISSUE

COMPUTING THE FUTURE--
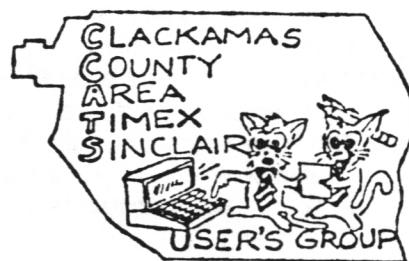IN CLACKAMAS COUNTY

SOAP BOX

It looks like summer has finally arrived. We had a great turnout for our July meeting. I find it very assuring to know that we have such a core of Sinclairites to share our devotion with.

Once again I am going to get on my Soap Box and urge every member who has a modem to give the Bull Pen BBS a call. I just got off the line from the board and was overwhelmed by the amount of messages in our "Echo". It took me 55 minutes to read all of the messages there. (I hadn't checked in for 2 weeks.) Once again, we have the golden opportunity to get our Sinclair Echo on the National Backbone. Get in there and do your part and leave messages. If you need some help give me or Rod Gowen a call.

With the dearth of Sinclair magazines and dealers it is nice to know that there is still a means to find out the current news about the Sinclair world. There was news on 3 different hard disk interfaces for the QL on the BBS. There were plenty of tips on using our computers. This is a good place to ask your questions, as there are some excellent Sinclair Experts on this board.

For you TS1000 diehards, I even noticed some messages concerning this lovely piece of history. Even the 2068 is not forgotten by regular callers to this board.

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So please dust-off your modems and give the Bull Pen a ring. The number is 652-5803, the setting is 8,N,1.

I recently received a letter from Syd Wyncoop, who sends his regards and would be more than happy to hear from anyone who would like to drop him a note. His address is 15951 Rosalita Drive, La Mirada, CA 90638.

One last tidbit -- D.S. gets a two month reprieve from any and all harassment. One month for each Z88 he now owns.

Sinclairly,
Michael E. Carver

JUNE MEETING MINUTES

Minutes of the meeting held June 9th. Since there will be a combined issue of the Plotter for the months of July and August this will be late in reaching the members that were unable to attend.

The meeting was called to order by Mike Carver at 7:45, with only twelve members present, another three came in shortly after 8:00 PM.

The first item on the agenda was to say THANK YOU to Bob Evans for his suggestion to have the dinner last month at Gates Restaurant. We had a very good turn out and everyone a great time.

Next item was regarding the use of BBS. There seems to have been a great flurry of messages at first and then it died off quite suddenly. It is not known yet if we will be able to get back on to Echo.

There was a swap-meet set for 10 AM. at the Tigard firehouse Saturday the 10th. I was unable to go, does anyone know how it turned out?

The members present then took on the job of proof-reading the by-laws of our organization. There were only 2 or 3 minor changes and a few typo errors to be corrected, and it was moved and seconded to put it in final form for the members.

There being no further business the meeting was adjourned.

We hope to see more of you at the July 14 meeting. Bring all of your question and/or ideas to the meeting.

Betty Schaffler, Secretary

LARKEN LINES

by: ROD GOWEN

Welcome back! We hope that you have been having a great summer! I know that a lot of you have been or will be on vacation but that's no reason to forget our trusty computers! Let's see whats doing!

LARKEN LIBRARY-

is growing! We are hearing each month of more and more disks being added to the various user groups around the country. We have quite a few folks in our own group who have done a lot of conversion with existing software. RMG Enterprises offers a LOT of titles of available software on Larken disk. Both RMG and Bench's Computer Works offer the conversion service for those who may need it. Write or call for more info.

CATALOG ON DISK?

That's right! RMG now offers the Larken users of the world their complete catalog on disk in Larken format using TASWORD II word processor. If you can make use of this, you should get in contact. They are also offering a monthly mailing of catalog updates and information for all TS users. These monthly mailings will include AT LEAST 3 public domain program per year-READY TO RUN! All this at only $3 for the catalog and $12 (inside continental U.S. only) for the 12 monthly disk mailings. You also get a total of $8 in coupons when you order both.

PROGRAM OF THE MONTH-

This month we offer you a new RAMDISK BACKUP program from the master himself, Larry Kenny. I have done a bit of modification, but it sure works great! AND, you do not need a DSDD drive to use it! It is pretty much self-explanatory, but if you should have any questions, feel free to call or write.

BITS & BYTES
by: ROD GOWEN

Heard any TS related news lately? Did you get any information in the mail from others, user groups, or vendors that may be of interest to our readers? If so, why not share it with us? We need all of the help we can get. Please send any info that you might have to: Rod Gowen, C/O CCAT/S, 1419 1/2 7th Street, Oregon City, OR 97045, or, phone in at: 503/655-7484, NOON - 10 PM weekdays. I know that the entire user group will appreciate it!

SNUG NEWS-

According to various newsletters that we receive, SNUG held its first annual meeting in April and had an attendance of 35 members! They held or at least made official, the results of the first "elections". As we, CCAT/S, evidently do not count as a viable user group in good standing, we have not received anything from these fine folks! No announcements, no ballots, no nomination forms, forms-NOTHING! What gives? Is SNUG for all or for just a select few? If they are, as they claim, representative of the Sinclair community at large, then they had better get their hands on an up-to-date user group list and send info to ALL OF THEM! I was recently accused of being "negative" in regard to SNUG!-FAR FROM IT! I have been an avid supporter since the idea was mentioned. Who is it that is trying to get the "SINCLAIR USER UNITE!" Echo on the backbone for all who would like to access Sinclair news on their local BBS? I say "SNUG - LET US HEAR FROM YOU! WE WANT TO BE A PART OF THIS!".

SINCLAIR USERS UNITE! ECHO-

was, was not, is? we may have it on the national backbone again by the time you are reading this. We hope! It was supposedly put out for BBS to pick up in late May. Seems there was a power struggle going on in the NETWORK and it never actually got put on and then we were notified that it was being removed do to "lack of use". Now that things have settled down on the NET, we have had communication with the local hub and will be putting it back on the backbone to go out to the WORLD again in a week or so. If you have a local NETMAIL, FIDONET, or ECHOMAIL BBS that you can access, ASK THE SYSOP TO REQUEST AND CARRY THE "SINCLAIR USERS UNITE!" ECHO. We can go WORLDWIDE if we get enough users! Wouldn't it be great to talk to folks in the UK virtually overnight?

RMG/ZEBRA-

is still in the works. The agreements are in the mail and maybe by the time you are reading this, RMG will have production and distribution rights to most of the software that Zebra once sold. We will keep you informed.

Take Care Till Later-

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HERB BOWERS, SR.
2588 WOODSHIRE CIRCLE
CHESAPEAKE. VIRGINIA 23323

_____

11 July 1988

Dick Wagner, Editor
The Plotter
1419 1/2 7th Street
Oregon City, OR 97045

Dear Dick,

Enclosed is a LLISTing for my MEDICARE INCOME TAX CALCULATOR program.

If you would care to publish this in your newsletter you have my blessing.

At this time my production company, A*B*B*A SOFTWARE, no longer supports the TIMEX/SINCLAIR family of computers and all programs published up to this date are placed in the public domain.

I will however, from time to time write a program which will be submitted to UG newsletters for publication.

I have a conversion of this MEDICARE ITC available for the T/S 1000/1500 and the PC8300 and will send a LLISTing to anyone for a SASE.

This program is being submitted to all other known newsletters and publications.

Sincerely,

Herb Bowers, Sr.

>> >> >>

```
0>REM Medicare Income Tax
        by Herb Bowers, Sr.
              071189

1 REM Starting with your 1989
returns, all individuals eligi-
ble for Part A Medicare benifits
will be subject to a tax "sur-
charge" if thier tax liability
exceeds $150. The amount of the
surcharge will be based on tax
liability, with a maximum tax of
$800 for 1989.
2 REM If you are ELIGIBLE for
Part A coverage, the surcharge
will apply; you may not avoid
the tax by waving Medicare beni-
fits. Those eligible for Part A
coverage include ALL individuals
age 65 or older and other young-
er disabled persons.
3 REM The tax will not apply
in the first year you become el-
igible unless you are eligible
for more than 6 months of the
year.
4 REM If both you and spouse
are eligible for Part A the an-
nual tax ceilings are doubled.
5 REM If only one spouse is
eligible and a joint return is
filed, the limit applies but the
tax is based on 50% of the joint
return liability regardless of
which spouse earned the income.
6 REM        TAX CEILINGS
        1989              $800
        1990               850
        1991               900
        1992               950
        1993              1050
7 REM Filing seperate returns
will not reduce the liability.
Unless spouse live apart for the
entire year, the tax ceiling in
1989 for each spouse on a seper-
ate return is $1600, rather than
$800 making the maximum possible
tax $3200. If only one spouse is
eligible both are treated as el-
ibible on seperate returns; the
$800 ceiling applies.
8 REM This short 2K program
will quickly and accurately cal-
culate the MEDICARE TAX for you.
TO USE: Simply enter your tax
liability from your 1988 income
tax return or enter the amount
of your estimated 1989 tax lia-
bility.
9 REM The IRS will publish a
table to be use for the calcula-
tion of the tax but in the mean-
time you can determine the tax
for yourself.

10 DEF FN a(f)=tax/150*r(f)
100 DATA 22.5,800,37.5,850,39,
    900,40.5,950,42,1050
110 POKE 23658,8: POKE 23609,10
120 CLS : LET q=0: LET t=0
130 DIM r(5): DIM s(5)
140 DIM t(5)
150 FOR f=1 TO 5
160 READ r(f),s(f)
170 NEXT f
1000 PRINT "MEDICARE INCOME TAX"
1010 PRINT ''"WHAT'S YOUR FILING
STATUS? (1-5)"
1020 IF INKEY$="" OR INKEY$<"1"
OR INKEY$>"5" THEN GO TO 1020
1030 LET fs=VAL INKEY$: PRINT ,f
s
1040 IF fs<>2 AND fs<>3 THEN
     GO TO 1160
1050 PRINT ''"DO BOTH YOU AND SPO
USE QUALIFY  FOR MEDICARE, PART
A ? (Y/N)"
```

```
1060 IF INKEY$="" OR INKEY$<>"Y"
     AND INKEY$<>"N" THEN GO TO
     1060
1070 LET q=INKEY$="Y"
1080 PRINT ,"YES" AND q;"NO" AND
     NOT q
1090 IF fs=2 THEN GO TO 1160
1110 PRINT ''"DID YOU AND YOUR SP
OUSE LIVE TO-GETHER AT ANY TIME
DURING YEAR ?"
1120 IF INKEY$<>"" THEN GO TO
     1120
1130 IF INKEY$="" OR INKEY$<>"Y"
     AND INKEY$<>"N" THEN GO TO
     1130
1140 LET t=INKEY$="Y"
1150 PRINT ,"YES" AND t;"NO" AND
     NOT t
1160 PRINT ''"ENTER TAX LIABLILTY
 FROM YOUR    LAST FEDERAL INCOME
 TAX RETURN"
1170 INPUT tax: PRINT ,"$";tax
1180 INPUT "IS THE ABOVE CORRECT
?", LINE q$
1190 IF q$(1)="N" THEN RUN
1200 FOR f=1 TO 5
1210 IF t OR q THEN LET s(f)=
     s(f)*2
1220 NEXT f
1230 IF fs=2 THEN LET tax=tax/2
1240 FOR f=1 TO 5
1250 IF tax<150 THEN GO TO 1290
1260 LET t(f)=FN a(f)
1270 IF (fs=2 AND q) OR t THEN
     LET t(f)=t(f)*2
1280 IF t(f)>s(f) THEN LET t(f)=
     s(f)
1290 NEXT f
1300 CLS
1310 PRINT 'TAB 5;"MEDICARE INCO
ME TAX"
1320 PRINT 'TAB 5;"YEAR";TAB 21;
"TAX"
1330 FOR f=1 TO 5
1340 IF t(f)>s(f) THEN LET t(f)=
     s(f)
1350 PRINT ''TAB 5;f+1988;TAB 20
     +(t(f)<1000)+(t(f)<100)+(t
     (f)<10);INT t(f)
1360 NEXT f
1370 PRINT AT 21,3;"■OPY    ■O AN
OTHER   ■UIT"
1380 IF INKEY$="C" THEN PRINT AT
     21,0;TAB 31
     : COPY
     : GO TO 1370
1390 IF INKEY$="D" THEN RUN
1400 IF INKEY$="" THEN GO TO
     1370
1410 STOP
9999 CLEAR : SAVE "medicaretx" L
INE 100: SAVE "medicaretx" LINE
100: SAVE "medicaretx" LINE 100:
 VERIFY "": VERIFY "": VERIFY ""

+ + + + + + + + + + + + + + + + + + +
```

```
10 REM >RAMDISK to DISK BACKUP
By LARKEN ELECTRONICS
20 BORDER 0: INK 7: PAPER 0: CL
S : PRINT AT 5,5;"LARKEN RAMDISK
BACKUP";AT 8,2;"SAVE RAMDISK to D
ISK      (S)";AT 10,2;"LOAD RAMDIS
K from DISK    (L)";AT 13,9;"Press
S or L"
30 PLOT 0,50: DRAW 0,100: DRAW
255,0: DRAW 0,-100: DRAW -255,0
35 PLOT 2,52: DRAW 0,96: DRAW 2
51,0: DRAW 0,-96: DRAW -251,0
40 LET a$=INKEY$: IF a$="L" OR
a$="l" THEN  GO TO 100
50 IF a$="S" OR a$="s" THEN  GO
TO 200
```

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```
   60 GO TO 40
   80 BEEP .1,20: INPUT "    NUMBE
R of RAMchips? :";NC: IF NC>8 THE
N  GO TO 80
   90 RETURN
  100 PRINT AT 10,2; FLASH 1;"LOAD
": GO SUB 80
  105 PRINT #0;" Move RAMDisk Swit
ch to UP now!": PAUSE 0: INPUT ;
  110 RESTORE 500: FOR a=1 TO NC
  115 READ x: OUT 7,(x+64): OUT 24
4,240
  120 LET n$="R-BANK.C"+STR$ a: PR
INT AT 18,6;"LOADing  "; INVERSE
1; FLASH 1;N$: INVERSE 0: RANDOMI
ZE USR 100: LOAD n$CODE 32768,327
68
  140 NEXT a
  150 RANDOMIZE USR 100: GO TO 4:
RANDOMIZE USR 100: CAT "",
  170 GO TO 300
  200 PRINT AT 8,2; FLASH 1;"SAVE"
: GO SUB 80
  210 PRINT #0;"    Press any Key w
hen ready": PAUSE 0: INPUT ;
  220 RESTORE 500: FOR a=1 TO NC
  230 READ x: OUT 7,x: OUT 244,240

  250 LET n$="R-BANK.C"+STR$ a: PR
INT AT 18,6;"SAVEing  " ; FLASH 1
; INVERSE 1;N$; INVERSE 0:
  260 RANDOMIZE USR 100: SAVE n$CO
DE 32768,32768
  280 NEXT a
  300 OUT 244,0: PRINT #0;TAB 8; F
LASH 1; INVERSE 1;">> ALL DONE <<
"; INVERSE 0
  310 BEEP .4,10: BEEP .4,1: IF IN
KEY$="" THEN  GO TO 310
  320 STOP
  500 DATA 7,3,5,1,6,2,4,0
 9998 STOP
 9999 RANDOMIZE USR 100: SAVE "RBA
KUP.B1" LINE 1
```

PROFILE AGAIN!
Dick F. Wagner

Printer codes are easy to install in PROFILE 2068 as per the manual pages 115 & 116. The easiest place to get the printer codes in hex is from your printer manual. An up-arrow must be used for each hex number making up the code. This works fine for the printer driver in LPRINT mode.

If the printer makes an extra line feed or maybe no line feed it is not necessary to change the dip switch that controls LF. Just PEEK the address 63773 for either a "10" or a "0". If you are getting an extra LF just POKE 63773,0 and if no LF poke in "10". The up-arrow does not seem to work for this code, at least when working with a PROFILE file.

Other printer codes can be entered in PROFILE as a file or added to the first line first characters. The easiest is to make a file of just the up-arrow codes and use "THEN" to send that code to the printer. Another ENTER will bring back the cursor. In order to cancel this file save the file with "G" and then search for the file data you entered, as "^1B^6C^20". Then delete it with "D". This code sets the left margin at 32 for my printer. NOTE: If this procedure is followed when starting a new file in empty PROFILE it may wipe out the date on the menu page. Just reset the date if it does.

Now you can use AUTO and print files at other than O left margin. Italics, Compressed, Elite, Emphasized, NLQ, can be used for file printing.

The reason for making a special code file and deleting it after sending the data to the printer is that the first file to be printed in AUTO mode can't be added to without changing it to the last file, which defeats the purpose of setting the printer

PRINTING FROM ARRAYS

The Epson printer manual for the JX-80 printer has some good programs that are adaptable to Sinclair BASIC. One of interest is a method of sending to the printer data that has been stored in arrays. The following program calculates the plot of a small circle. The calculations are for one quarter segment of a circle. This is converted into a mirror replica horizontally, and this half circle is then converted into another mirror replica, making a full circle. This is then sent to the

printer in rows of 7 dots. It produces the printout in 6 passes.

The program gives a running record of the 21 rows of pixels as it reads each row and stores the results in an array. It then shows the print head rows being printed. This is done on the screen as only the circle is printed on the printer.

Some line comments will better illustrate the program. Line 5 is for my Oliger printer driver. Use whatever is required to get ASCII output correctly to your printer.

Line 7 sets the left margin for my Epson work alike printer (Panasonic KX-P1080i. Not required if you want to print without a left margin. I use this to use other parts of a page when experimenting.

Line 10 sets "N" for 21. When using 7 pins in the print head, "N" must be in increments of 7. The array is dimensioned here.

Line 30 assigns the circle formula to "D". Circle formula? This formula calculates the distance between each pixel by taking the square root of the horizontal distance + the vertical distance. Remember the formula for the hypotenuse of a right triangle? The method used by this program is to determine each pixel position within the square encompassing the circle. Pixels that are to be black are called 1s and white are 0s.

Line 40 simply calls a pixel near 20 a "1", otherwise it is "0".

Line 60 is the counter and prints out a running record on the screen.

Line 70 is the printer code for my printer for line spacing. It is using 7/72 which is the CHR$ 7 part.

Lines 80, 90, and 100 change the order in which the array is read, toggling the order in which the array is read. First it is read upside down when Z=1, then right side up when Z=2.

Lines 110-160 are as follows. Line 110 loads the array rows from beginning "B" to end "E" in sets of seven. Line 120 prints a screen record of the computer's progress. Line 130 enters Graphic Mode and reserves "N" columns for graphics, "N" being the width of the array. Line 150 accesses the subroutine that calculates the pin patterns for each column. Line 160 closes the loop for each pass "P" of the print head.

Line 170 can be deleted as it simply cleans out the printer buffer with the Reset.

Lines 170-220 convert the ones and zeros to pin firing sequences. The firing pattern is calculated for eacy column of 7 pins. It examines the array vertically, one cell at a time. When it encounters a "1", it adds the appropriate power of 2 to "F". The ABS (P+6*S-R) is the difference between the current row "R" and the last row in this pass of the print head (P*S-A). and finally, line 220 sends "F" to the printer as a graphics pin pattern.

WARNING: This a slow method of producing a print out of any shape of figure.

```
    5 LET /p=0/G: POKE 23300,60:
POKE 23301,3
    7 LPRINT CHR$ 27;"l";CHR$ 20
   10 LET N=21: DIM A(N,N)
   20 FOR R=1 TO N: FOR C=1 TO N
   30 LET D=SQR (R↑2+C↑2)
   40 IF INT (D+.5)=20 THEN LET A
(R,C)=1
   50 NEXT C
   60 PRINT "T MINUS ";N-R: NEXT
R
   70 LPRINT CHR$ 27;"1";CHR$ 7;
   80 LET B=N: LET E=7: LET S=-1
   90 FOR Z=1 TO 2
  100 IF Z=2 THEN LET B=1: LET E=
N-6: LET S=1
  110 FOR P=B TO E STEP 7*S
  120 PRINT "LOADING ROWS ";P;" T
O ";P+6*S
  130 LPRINT CHR$ 27;"*";CHR$ 5;C
HR$ (2*N);CHR$ 0;
  140 FOR C=N TO 1 STEP -1: GO SU
B 180: NEXT C
  150 FOR C=1 TO N: GO SUB 180: N
EXT C
  160 LPRINT : NEXT P: NEXT Z
  170 LPRINT CHR$ 27;"@"
  180 LET F=0: FOR R=P TO P+6*S S
TEP S
  190 IF A(R,C)=1 THEN LET F=F+2↑
ABS (P+6*S-R)
  200 NEXT R
  220 LPRINT CHR$ F;: RETURN
```

FROM THE EDITOR'S DESK

Surprise! there were more than half of our membership at the last two meetings. This is a definite improvement for attendance at this time of the year.

Due to doubling up 2 months, July and August, this newsletter carries minutes for the June meeting . As we usually have 11 meetings and issues a year, the non-business dinner meeting took the place of the July "vacation".

It looks like we could have a reduction in paid subscriptions if the 4 who have subscriptions ending with September do not wish to continue their subscriptions. We hope our newsletter stirs their interest enough to renew.

The Timex/Sinclair fraternity has lost another programmer as the readers will note from the letter received from Herb Bower, Sr. Sure sorry to see him leave as he had some novel programs, and magazine ads. Herb's Medicare Income Tax program in this issue is in public domain as will be his past programs. Maybe RMG Enterprises will be in a position to sell some of these classics.

I have been working on the CCAT/S logo program to see if the results will be acceptable ie: a duplicate in size and figure. The 2 cats have to be finished plus the lettering. So far it looks pretty good. This will not be a screen dump as I want the image to duplicate the original in size and be in high resolution. This is the advantage in printer programming. It does take a lot of numbers, 156 across for each 8-pixel high row. Figure 13 rows times 156 and you have it.

Digital Precission's Solution program for implementing MS-DOS on the QL computer brings in a new world of programs accessed from disk drive. Being new at this, I have found several sources for low cost programs. One drawback to this method of conversion is that it is not a speed demon. Consider that each key stroke must be converted from MS-DOS to Superbasic and some MS-DOS commands are not even present in Superbasic. Anyway, some game programs are not for this set up. It is interesting that Digital Precission has not shirked on advertising the above fact, it is well spelled out in ads.

Back to the programs for MS-DOS. I saw an ad in the Oregonian for --"1000s, GREAT #3.50 IBM compatable programs, etc". No name, just a phone number. A call to the number after 5 PM (I thought it might be long distance) brought me the answer that the company is in Pendleton and goes under the name of Mega-Byte Software. It is actually a distributor of shareware software provided by Computer Bin Shareware/Software (location unknown). In a few days I received a catalog of all kinds of programs priced at $4.00 per disk for orders of 5 or fewer disks. Over 5 is $3.50. Add $3.00 for P$H.

Another supplier of software for the MS-DOS programs is located in Central Point. This company is Software Excitement and may be producing some programs. Their catalog carries fewer programs than Mega-Byte does. There is no documentation available other than that provided on each disk. The user is expected to print out the documentation if necessary. For instance, Mega-Byte's PC CALC 3 disk program provides a complete documentation on disk #3, but be sure the printer is loaded with better than 300 pages of paper!

An interesting program source for 2068 public domain programs is our exchange newsletter group, SINCUS. There is one catch at the moment, their programs are for the Oliger SAFE disk system. They are considering putting the same programs on Larken disk systems. For $2.00 you can obtain a sample disk with 21 files selected from their full list. I purchased 5 disks special for $10.00 while the regular price is $2.50 per disk.

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POPULAR MECHANICS NOW HAS ELECTRONIC MAIL

You can call the PM computer any day between 6 PM and 8 AM (only) EST. The Number is (212) 582-8369. Once you're on the line, you can leave messages for specific editors, or direct inquies and comment to a specific department. The department bullitin board also allows you to share your thoughts with other readers who call in.

New users will get an ident-ification number and password that allow them to access the system. Simply set your com-munications software to 8 bits, no parity and one stop bit (8-N-1), and set the baud at 300 or 1200. If you're asking a specific question, allow a week before calling back for our answer.

PM FAX MACHINE

You can fax written mail to us if you have access to a fax machine. Our fax number is (212) 586-5562 and is available 24 hours a day.

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ALL AD COPY MUST BE IN BY THE 10 TH OF THE MONTH PRIOR TO THE MONTH AD IS TO RUN.

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